ABSTRACT

An ultrasound medical treatment system includes an ultrasound medical treatment transducer and a controller. In one arrangement, the controller movingly controls the medical treatment transducer to emit ultrasound to thermally ablate patient tissue: 1) for a plurality of predetermined time intervals each associated with the medical treatment transducer movingly disposed at a different one of an equal number of predetermined positions, wherein a next-in-time time interval is associated with a position which is spatially non-adjacent to a position associated with a present-in-time time interval; or 2) for a predetermined time interval during which the transducer is continuously moved. Methods of the invention so control the medical treatment transducer using or not using the controller. In another arrangement, the transducer has an array of transducer elements and the controller activates different non-overlapping groups or different overlapping groups of transducer elements at different times.

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